

| | | |
|--|---|---|
| (1350 REV. 5-93) US DEPT. OF COMMERCE PATENT & TRADEMARK OFFICE TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 10728 PF U.S. APPLICATION NO. (if known, sec 37 C.F.R.1.5) 09/700,915 #5 |
| INTERNATIONAL APPLICATION NO. PCT/JP00/01787 | INTERNATIONAL FILING DATE March 23, 2000 | PRIORITY DATE CLAIMED March 23, 1999 |
| TITLE OF INVENTION OPTICAL SIGNAL TRANSMISSION SUBSTRATE AND DEVICE | | |
| APPLICANTS FOR DO/EO/US Tatsuya SHIMODA et al. | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. | | |
| 2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. | | |
| 3. <input type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). | | |
| 4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. | | |
| 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) | | |
| 6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). | | |
| 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. | | |
| 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). | | |
| 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). | | |
| 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). | | |
| Items 11. to 16. below concern other document(s) or information included: | | |
| 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. | | |
| 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. | | |
| 13. <input type="checkbox"/> A FIRST preliminary amendment. | | |
| <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. | | |
| 14. <input type="checkbox"/> A substitute specification. | | |
| 15. <input type="checkbox"/> Entitlement to small entity status is hereby asserted. | | |
| 16. <input checked="" type="checkbox"/> Other items or information: Response to Notification of Missing Requirements Translation Already Filed | | |

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.5) 09/700,915

INTERNATIONAL APPLICATION NO.
PCT/JP00/01787

ATTORNEY'S DOCKET NUMBER
107286

17. ☐ The following fees are submitted:

Basic National fee (37 CFR 1.492(a)(1)-(5)):

Search Report has been prepared by the EPO or JPO\$860.00

International preliminary examination fee paid to USPTO
(37 CFR 1.482)\$690.00

No international preliminary examination fee paid to USPTO
(37 CFR 1.482) but international search fee paid to USPTO
(37 CFR 1.445(a)(2))\$710.00

Neither international preliminary examination fee (37 CFR
1.482) nor international search fee (37 CFR 1.445(a)(2))
paid to USPTO\$1,000.00

International preliminary examination fee paid to USPTO
(37 CFR 1.482) and all claims satisfied provisions of PCT
Article 33(2)-(4)\$ 100.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

Surcharge of \$130.00 for furnishing the oath or declaration later than
☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR
1.492(e)).

| Claims | Number Filed | Number Extra | Rate |
|--|--------------|--------------|------------|
| Total Claims | - 20 = | | X \$ 18.00 |
| Independent Claims | - 3 = | | X \$ 80.00 |
| Multiple dependent claim(s)(if applicable) | | | + \$270.00 |

TOTAL OF ABOVE CALCULATIONS =

Reduction by 1/2 for filing by small entity, if applicable. -

SUBTOTAL =

Processing fee of \$130.00 for furnishing the English translation later
than ☐ 20 ☐ 30 month from the earliest claimed priority date (37 CFR
1.492(f)). +

TOTAL NATIONAL FEE =

Amount to be
refunded

Charged

- a. ☐ Check No. _____ in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 15-0461. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320

NAME: James A. Oliff
REGISTRATION NUMBER: 27,0750

NAME: Joel S. Armstrong
REGISTRATION NUMBER: 36,430

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

FEB 20 2001

In re the Application of

Tatsuya SHIMODA et al.

ATTN: PCT Branch

Application No.: 09/700,915

Docket No.: 107286

TC 2600 MAILROOM

Filed: November 21, 2000

For: OPTICAL SIGNAL TRANSMISSION SUBSTRATE AND DEVICE

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS

UNDER 35 U.S.C 371 IN THE UNITED STATES

DESIGNATED/ELECTED OFFICE (DO/EO/US)

TRANSLATION ALREADY FILED

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

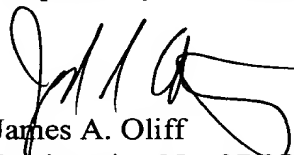
Sir:

In response to the Notification of Missing Requirements Under 35 U.S.C 371 in the United States Designated/Elected Office (DO/EO/US) (copy attached) mailed on December 15, 2000, the translation was filed on November 22, 2000. A copy of the translation as filed, a copy of the Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371, and a copy of the stamped postcard receipt are attached hereto.

Entry of these documents on November 22, 2000 should have completed all of the filing formalities. Accordingly, prompt issuance of a Notification of Acceptance and Filing Receipt, and prompt examination and allowance of this application are respectfully solicited.

The Director is hereby authorized to charge any additional fee (or credit any overpayment) associated with this communication to Deposit Account No. 15-0461. Two duplicate copies of this paper are attached.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

Joel S. Armstrong
Registration No. 36,430

JAO:JSA/cmm

Date: December 26, 2000

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

**DEPOSIT ACCOUNT USE
AUTHORIZATION**

Please grant any extension
necessary for entry;

Charge any fee due to our
Deposit Account No. 15-0461



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: ASSISTANT COMMISSIONER FOR PATENTS
Box PCT
Washington, D.C. 20231

| | | |
|--|------------------------------------|----------------------------|
| U.S. APPLICATION NO. 09/700915 | FIRST NAMED APPLICANT SHIMODA T | ATTY. DOCKET NO. 107286 |
| OLIFF & BERRIDGE PO BOX 19928 ALEXANDRIA, VA 22320 | | |
| RECEIVED DEC 18 2000 OLIFF & BERRIDGE | | |
| INTERNATIONAL APPLICATION NO. PCT/JP00/01787 | | |
| I.A. FILING DATE 23 MAR 00 | | PRIORITY DATE 23 MAR 99 |
| DATE MAILED: 15 DEC 2000 | | |

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

1. The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as

- ☒ a Designated Office (37 CFR 1.494),
☐ an Elected Office (37 CFR 1.495):
☒ U.S. Basic National Fee.
☒ Copy of the international application in:
☒ a non-English language.
☐ English.
☐ Translation of the international application into English.
☐ Oath or Declaration of inventor(s) for DO/EO/US.
☐ Copy of Article 19 amendments.
☐ Translation of Article 19 amendments into English.
☐ The International Preliminary Examination Report in English and its Annexes, if any.
☐ Translation of Annexes to the International Preliminary Examination Report into English.
☐ Preliminary amendment(s) filed _____ and _____.
☐ Information Disclosure Statement(s) filed _____ and _____.
☒ Assignment document.
☐ Power of Attorney and/or Change of Address.
☐ Substitute specification filed _____.
☐ Verified Statement Claiming Small Entity Status.
☒ Priority Document.
☒ Copy of the International Search Report ☒ and copies of the references cited therein.
☒ Other: Inventor Information Sheet; RO 101(easy version)

2. The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- ☒ a. Translation of the application into English. Note a processing fee will be required if submitted later than the appropriate 20 or 30 months from the priority date.
☐ The current translation is defective for the reasons indicated on the attached Notice of Defective Translation.
☒ b. Processing fee for providing the translation of the application and/or the Annexes later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(f)).
☐ c. Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the international application number and international filing date.
☐ The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) for the reasons indicated on the attached PCT/DO/EO/917.
☐ d. Surcharge for providing the oath or declaration later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(e)).

3. Additional claim fees of \$ _____ as a ☐ large entity ☐ small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due. See attached PTO-875.

ALL OF THE ITEMS SET FORTH IN 2(a)-2(d) AND 3 ABOVE MUST BE SUBMITTED WITHIN ONE MONTH FROM THE DATE OF THIS NOTICE OR BY ☒ 21 OR ☐ 31 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

4. Translation of the Annexes **MUST** be submitted no later than the time period set above or the annexes will be cancelled. Note processing fee will be required if submitted later than 30 months from the priority date.

5. ☐ The Article 19 amendments are cancelled since a translation was not provided by the appropriate 20 (37 CFR 494(d)) or 30 (37 CFR 1.495(d)) months from the priority date.

Applicant is reminded that any communication to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above. (37 CFR 1.5)

A copy of this notice MUST be returned with this response.

Enclosed:

- ☐ PCT/DO/EO/917
☐ Notice of Defective Translation
☐ PTO-875
FORM PCT/DO/EO/905 (December 1997)

DOCKETED
By JB on 12/18/2000
and
By CRP on 12/19/2000
Oliff & Berridge

Francine Young
Telephone: 703-305-3662

| | | |
|---|---|---|
| (1390 REV. 5-93) US DEPT. OF COMMERCE PATENT & TRADEMARK OFFICE TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | ATTORNEY'S SOCKET NUMBER 107286 U.S. APPLICATION NO. (If known, sec 37 C.F.R.1.5) |
| INTERNATIONAL APPLICATION NO. PCT/JP00/01787 | INTERNATIONAL FILING DATE March 23, 2000 | PRIORITY DATE CLAIMED March 23, 1999 |
| TITLE OF INVENTION OPTICAL SIGNAL TRANSMISSION SUBSTRATE AND DEVICE | | |
| APPLICANTS FOR DO/EO/US Tatsuya SHIMODA et al. | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). 4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) 6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). | | |
| Items 11. to 16. below concern other document(s) or information included: | | |
| <ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 14. <input type="checkbox"/> A substitute specification. 15. <input type="checkbox"/> Entitlement to small entity status is hereby asserted. 16. <input type="checkbox"/> Other items or information: | | |

| | | |
|--|---|------------------------------------|
| U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) | INTERNATIONAL APPLICATION NO. PCT/JP00/01787 | ATTORNEY'S DOCKET NUMBER 107286 |
|--|---|------------------------------------|

| | | |
|--|---------------------|---------------------|
| 17. <input type="checkbox"/> The following fees are submitted: Basic National fee (37 CFR 1.492(a)(1)-(5)): Search Report has been prepared by the EPO or JPO\$860.00 International preliminary examination fee paid to USPTO (37 CFR1.482)\$690.00 No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2))\$710.00 Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO\$1,000.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4)\$ 100.00 ENTER APPROPRIATE BASIC FEE AMOUNT = | CALCULATIONS | PTO USE ONLY |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | \$ | |

| Claims | Number Filed | Number Extra | Rate | \$ | |
|---|--------------|--------------|------------|----|----|
| Total Claims | - 20 = | | X \$ 18.00 | \$ | |
| Independent Claims | - 3 = | | X \$ 80.00 | \$ | |
| Multiple dependent claim(s)(if applicable) | | | + \$270.00 | \$ | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ | |
| Reduction by 1/2 for filing by small entity, if applicable. | | | | - | \$ |
| SUBTOTAL = | | | | \$ | |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 month from the earliest claimed priority date (37 CFR 1.492(f)). | | | | + | \$ |
| TOTAL NATIONAL FEE = | | | | \$ | |

| | | |
|--|-----------------------|----|
| | Amount to be refunded | \$ |
| | Charged | \$ |

a. ☐ Check No. _____ in the amount of \$_____ to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of \$_____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 15-0461. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:
 OLIFF & BERRIDGE, PLC
 P.O. Box 19928
 Alexandria, Virginia 22320

NAME: James A. Oliff
 REGISTRATION NUMBER: 27,075

NAME: Joel S. Armstrong
 REGISTRATION NUMBER: 36,430

PTO RECEIPT FOR FILING OF PAPERS

The following papers have been filed:

PCT Trans., English Translation of Spec., pp. 1-31, 9 claims, Abst., 9 sheets dwgs (1-8),
Pre. Amend.

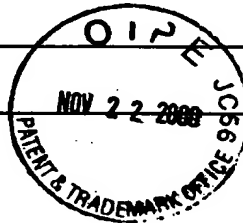
Name of Applicant: Tatsuya SHIMODA et al.

Serial No.: U.S. National Stage of PCT/JP00/01787

Atty. File No.: 107286

Title (New Cases):

Sender's Initials: JAO/cmm



138/44

PATENT OFFICE DATE STAMP

**COPY TO BE STAMPED BY PATENT OFFICE
AND RETURNED BY MESSENGER**

23